

ABSTRACT

An expander is provided in which a rotor (22) is rotated by supplying high-temperature, high-pressure steam to an expansion chamber (43) defined
5 between a piston (42) and a cylinder sleeve (41) so that the piston (42) pushes a swash plate (31), and sliding surfaces of the piston (42) and the cylinder sleeve (41) are lubricated with oil supplied via an oil hole (32c). The piston (42) includes a top part (63) that is exposed to high-temperature, high-pressure steam within the expansion chamber (43), an end part (61) that abuts against
10 the swash plate (31), and a middle part (62) that is present between the end part (61) and the top part (63) and is in sliding contact with the cylinder sleeve (41), the top part (63) being formed from a heat-resistant and corrosion-resistant material, the end part (61) being formed from a material having high surface pressure resistance, and the middle part (62) being formed from a
15 material having high abrasion resistance. This enables the durability of the piston (42) of an axial piston cylinder type expander to be improved.